

Supplementary Materials

Table 1. Breakdown of acute alternative causes for anaemia, haemodynamic instability or urea rise

| | Cause | Derivation cohort | Validation cohort |
|----------------------------|--|-------------------|-------------------|
| Renal disease | Acute kidney injury | 3 | 7 |
| | Chronic kidney disease | 1 | 22 |
| Respiratory disease | Hospital acquired pneumonia | 1 | 3 |
| | Community acquired pneumonia | 3 | 4 |
| | Aspiration pneumonia | 3 | 2 |
| | Lower respiratory tract infection | 4 | 4 |
| | Infective exacerbation of asthma | 1 | 1 |
| Cardiac / Vascular disease | Decompensated heart failure | | 2 |
| | Aortic stenosis | 1 | |
| | Myocardial infarction/Acute coronary syndromes | 4 | 1 |
| | Limb ischaemia | | 1 |
| Gastrointestinal disease | Diarrhoea / obstruction | 6 | 7 |
| | Perforation at gastro-jejunum anastomosis | | 1 |
| Infection | Infection | 17 | 11 |
| Sepsis | Sepsis | 10 | 29 |
| Haematological disease | Haemophilia / von willebrand disease | | 1 |
| | Thalassaemia | | 1 |
| | Iron deficiency anaemia | | 1 |
| | Chronic anaemia | | 13 |
| Malignancy | Cancer | 5 | 24 |
| Post-op | Post-op | | 6 |
| Liver failure | Liver failure | | 1 |

| | | | |
|--------------|---|---|---|
| Hypovolaemia | Other causes of bleeding (e.g. epistaxis) | 4 | 7 |
| | Dehydration | 1 | 3 |
| | Alcohol excess | 3 | 6 |
| | Hydroxycarbamide | | 1 |

Table 2. The Glasgow-Blatchford Score

| Score component value | |
|---------------------------------------|---|
| Blood urea (mmol/L) | |
| 6.5-7.9 | 2 |
| 8.0-9.9 | 3 |
| 10.0-25.0 | 4 |
| >25.0 | 6 |
| Haemoglobin for men (g/L) | |
| 120-129 | 1 |
| 100-119 | 3 |
| <100 | 6 |
| Haemoglobin for women (g/L) | |
| 100-119 | 1 |
| <100 | 6 |
| Systolic blood pressure (mmHg) | |
| 100-109 | 1 |
| 90-99 | 2 |
| <90 | 3 |
| Other markers | |
| Pulse \geq 100/min | 1 |
| Presentation with melaena | 1 |
| Presentation with syncope | 2 |
| Hepatic disease | 2 |
| Cardiac failure | 2 |

Table 3 Univariable analysis of predictors of need for haemostasis

| Variable | Haemostasis not required, Number (%) | Haemostasis required, Number (%) | P value on univariable analysis* |
|---|--------------------------------------|----------------------------------|----------------------------------|
| Heart rate <100 | 214 (78) | 62 (22) | |
| Heart rate >100 | 99 (64) | 56(36) | <0.05 |
| Systolic Blood Pressure >100Hypotensive | 278 (75) | 95 (25) | |
| Systolic Blood Pressure <100 | 35 (60) | 23 (40) | <0.05 |
| Shock index <0.8 | 199 (78) | 57 (22) | |
| Shock index >0.8 | 144 (36) | 61 (52) | <0.05 |
| Urea (<7.8mmol/L) | 143 (78) | 41 (22) | |
| Urea (>7.8mmol/L) | 170 (69) | 77 (31) | <0.05 |
| Creatinine (<125µmol/L) | 252 (70) | 106 (30) | |
| Creatinine (>125µmol/L) | 61 (84) | 12 (16) | 0.37 |
| Urea/creatinine ratio <100 | 183 (84) | 35 (16) | |
| Urea/creatinine ratio >100 | 130(61) | 83 (39) | <0.05 |
| Haemoglobin (>125 g/L) | 117 (89) | 15 (11) | |
| Haemoglobin (100-125g/L) | 91 (76) | 28 (24) | |
| Haemoglobin (<100 g/L) | 105 (58) | 75 (42) | <0.05 |
| CRP <50mg/ml | 213 (68) | 99 (32) | |
| CRP (>50mg/ml) | 100 (84) | 19 (16) | <0.05 |
| White cell count <10 | 159 (72) | 63 (28) | |
| White cell count >10 | 154 (74) | 55 (26) | 0.63 |
| No Hepatic disease | 262(78) | 74(22) | |
| Hepatic disease | 51(54) | 44(46) | <0.05 |
| Low Albumin >30 | 251(79) | 67(21) | |
| Albumin <30 | 62(55) | 51(55) | <0.05 |
| Prothrombin time <50 | 273 (71) | 110 (29) | |
| Prothrombin time >50 | 40 (83) | 8 (17) | 0.07 |
| No Diabetes | 254 (72) | 99(28) | |
| Diabetes | 59 (76) | 19 (24) | 0.50 |
| No Dementia | 295(72) | 117 (28) | |
| Dementia | 18 (95) | 1(5) | <0.05 |
| No Stroke | 292 (72) | 116(28) | |
| Stroke | 21 (91) | 2 (9) | <0.05 |
| No COPD | 289(72) | 115(28) | |
| COPD | 24(89) | 3(11) | 0.05 |
| No Cancer | 303(73) | 112(27) | |
| Cancer | 10(63) | 6(38) | 0.35 |
| Negative findings on DRE | 173 (78) | 50 (22) | |
| Positive findings on DRE | 63(62) | 39(38) | <0.05 |
| No SyncopeCardiac failure | 286 (74) | 99 (26) | |
| Syncope | 27(59) | 19 (41) | <0.05 |

| | | | |
|--|--------------------------|-------------------------|--------------------------|
| Age< 75 | 186(68) | 86 (32) | |
| Age> 75 | 127(80) | 32(20) | <0.05 |
| Not on anticoagulants | 227(70) | 97 (30) | |
| On anticoagulants | 86 (80) | 21(20) | <0.05 |
| Female | 122 (75) | 40 (25) | |
| Male | 191 (71) | 78 (29) | 0.33 |
| No Alternate diagnosis explaining symptoms | 231 (68) | 111(32) | |
| Alternate diagnosis explaining symptoms | 82(92) | 7(8) | <0.05 |

[*Chi squared test used to compare proportions](#)